

Page 1 of 18

Safety data sheet according to Regulation (EC) No 1907/2006, Annex II

Revision date / version: 12.07.2018 / 0007

Replacing version dated / version: 30.03.2017 / 0006

Valid from: 12.07.2018 PDF print date: 13.07.2018 Motorbike Speed Shooter 80 ml

Art.: 3823

Safety data sheet according to Regulation (EC) No 1907/2006, Annex II

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Motorbike Speed Shooter 80 ml

Art.: 3823

1.2 Relevant identified uses of the substance or mixture and uses advised against Relevant identified uses of the substance or mixture:

Petrol additive

Uses advised against:

No information available at present.

1.3 Details of the supplier of the safety data sheet

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LIQUI MOLY GmbH, Jerg-Wieland-Str. 4, 89081 Ulm-Lehr, Germany Phone:(+49) 0731-1420-0, Fax:(+49) 0731-1420-88

Qualified person's e-mail address: info@chemical-check.de, k.schnurbusch@chemical-check.de Please DO NOT use for requesting Safety Data Sheets.

1.4 Emergency telephone number

Emergency information services / official advisory body:

Telephone number of the company in case of emergencies:

+49 (0) 700 / 24 112 112 (LMR)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) 1272/2008 (CLP)
Hazard class Hazard category Hazard statement

Asp. Tox. 1 H304-May be fatal if swallowed and enters airways. Aquatic Chronic 3 H412-Harmful to aquatic life with long lasting effects.

2.2 Label elements

Labeling according to Regulation (EC) 1272/2008 (CLP)



Danger



Page 2 of 18

Safety data sheet according to Regulation (EC) No 1907/2006, Annex II

Revision date / version: 12.07.2018 / 0007

Replacing version dated / version: 30.03.2017 / 0006

Valid from: 12.07.2018 PDF print date: 13.07.2018 Motorbike Speed Shooter 80 ml

Art.: 3823

H304-May be fatal if swallowed and enters airways. H412-Harmful to aquatic life with long lasting effects.

P101-If medical advice is needed, have product container or label at hand. P102-Keep out of reach of children.

P273-Avoid release to the environment.

P301+P310-IF SWALLOWED: Immediately call a POISON CENTER / doctor. P331-Do NOT induce vomiting.

P405-Store locked up.

P501-Dispose of contents / container to special waste collection point.

EUH066-Repeated exposure may cause skin dryness or cracking.

Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, <2% aromatics

Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)

Hydrocarbons, C10, aromatics, <1% naphthalene Hydrocarbons, C10, aromatics, >1% naphthalene

2.3 Other hazards

The mixture does not contain any vPvB substance (vPvB = very persistent, very bioaccumulative) or is not included under XIII of the regulation (EC) 1907/2006 (< 0,1 %).

The mixture does not contain any PBT substance (PBT = persistent, bioaccumulative, toxic) or is not included under XIII of the regulation (EC) 1907/2006 (< 0,1 %).

Hazardous to drinking water, on escape of even small quantities.

SECTION 3: Composition/information on ingredients

3.1 Substance

n.a. 3.2 Mixture

Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, <2% aromatics	
Registration number (REACH)	01-2119457273-39-XXXX
Index	
EINECS, ELINCS, NLP	918-481-9 (REACH-IT List-No.)
CAS	
content %	60-80
Classification according to Regulation (EC) 1272/2008 (CLP)	Asp. Tox. 1, H304

Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, aromatics (2-						
25%)						
Registration number (REACH)	01-2119458869-15-XXXX					
Index						
EINECS, ELINCS, NLP	925-653-7 (REACH-IT List-No.)					
CAS	(64742-81-0)					
content %	1-5					
Classification according to Regulation (EC) 1272/2008 (CLP)	Asp. Tox. 1, H304					
	Aquatic Chronic 3, H412					

Hydrocarbons, C10, aromatics, <1% naphthalene	
Registration number (REACH)	01-2119463583-34-XXXX
Index	
EINECS, ELINCS, NLP	918-811-1 (REACH-IT List-No.)
CAS	(64742-94-5)
content %	1-2,5
Classification according to Regulation (EC) 1272/2008 (CLP)	Asp. Tox. 1, H304
	STOT SE 3, H336
	Aquatic Chronic 2, H411

Hydrocarbons, C10, aromatics, >1% naphthalene	
Registration number (REACH)	
Index	



(B)

Page 3 of 18

Safety data sheet according to Regulation (EC) No 1907/2006, Annex II

Revision date / version: 12.07.2018 / 0007

Replacing version dated / version: 30.03.2017 / 0006

Valid from: 12.07.2018 PDF print date: 13.07.2018 Motorbike Speed Shooter 80 ml

Art.: 3823

EINECS, ELINCS, NLP	919-284-0 (REACH-IT List-No.)
CAS	(64742-94-5)
content %	1-2,5
Classification according to Regulation (EC) 1272/2008 (CLP)	Asp. Tox. 1, H304
	STOT SE 3, H336
	Aquatic Chronic 2, H411

Naphthalene	Substance for which an EU exposure limit value applies.
Registration number (REACH)	
Index	601-052-00-2
EINECS, ELINCS, NLP	202-049-5
CAS	91-20-3
content %	0,1-<1
Classification according to Regulation (EC) 1272/2008 (CLP)	Carc. 2, H351
	Acute Tox. 4, H302
	Aquatic Acute 1, H400 (M=1)
	Aquatic Chronic 1, H410 (M=1)

For the text of the H-phrases and classification codes (GHS/CLP), see Section 16.

The substances named in this section are given with their actual, appropriate classification!

For substances that are listed in appendix VI, table 3.1 of the regulation (EC) no. 1272/2008 (CLP regulation) this means that all notes that may be given here for the named classification have been taken into account.

If, for example, the note P is applied for a hydrocarbon then this has already been taken into account for the classification named here.

Quote: "Note P - The classification as a carcinogen or mutagen need not apply if it can be shown that the substance contains less than 0,1 % w/w benzene (EINECS No 200-753-7)."

Article 4 of the regulation (EC) no. 1272/2008 (CLP regulation) was also observed and taken into account for the classification named here.

SECTION 4: First aid measures

4.1 Description of first aid measures

First-aiders should ensure they are protected!

Never pour anything into the mouth of an unconscious person!

Inhalation

Remove person from danger area.

Supply person with fresh air and consult doctor according to symptoms.

If the person is unconscious, place in a stable side position and consult a doctor.

Skin contact

Remove polluted, soaked clothing immediately, wash thoroughly with plenty of water and soap, in case of irritation of the skin (flare), consult a doctor.

Eye contact

Remove contact lenses.

Wash thoroughly for several minutes using copious water. Seek medical help if necessary.

Ingestion

Rinse the mouth thoroughly with water.

Do not induce vomiting - give copious water to drink. Consult doctor immediately.

Danger of aspiration

In case of vomiting, keep head low so that the stomach content does not reach the lungs.

Immediate admittance to a hospital.

4.2 Most important symptoms and effects, both acute and delayed

If applicable delayed symptoms and effects can be found in section 11 and the absorption route in section 4.1.

The following may occur:

Irritation of the eyes

Irritation of the respiratory tract

Headaches

Dizziness

Effects/damages the central nervous system

Coordination disorders

Mental confusion Unconsciousness

Blood count modifications



(B)

Page 4 of 18

Safety data sheet according to Regulation (EC) No 1907/2006, Annex II

Revision date / version: 12.07.2018 / 0007

Replacing version dated / version: 30.03.2017 / 0006

Valid from: 12.07.2018 PDF print date: 13.07.2018 Motorbike Speed Shooter 80 ml

Art.: 3823

Liver and kidney damage With long-term contact: Drying of the skin.

Dermatitis (skin inflammation)

Ingestion: Nausea Vomiting

Danger of aspiration Oedema of the lungs

Chemical pneumonitis (condition similar to pneumonia)

In certain cases, the symptoms of poisoning may only appear after an extended period / after several hours.

4.3 Indication of any immediate medical attention and special treatment needed

Gastric lavage (stomach washing) only under endotracheal intubation.

Pulmonary oedema prophylaxis

Subsequent observation for pneumonia and pulmonary oedema.

SECTION 5: Firefighting measures

5.1 Extinguishing media Suitable extinguishing media

CO2

Sand

Dry extinguisher

Unsuitable extinguishing media

High volume water jet

5.2 Special hazards arising from the substance or mixture

In case of fire the following can develop:

Oxides of carbon

Toxic gases

Flammable vapour/air mixtures

5.3 Advice for firefighters

In case of fire and/or explosion do not breathe fumes.

Protective respirator with independent air supply.

According to size of fire

Full protection, if necessary.

Cool container at risk with water.

Dispose of contaminated extinction water according to official regulations.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Remove possible causes of ignition - do not smoke.

Ensure sufficient supply of air.

Avoid inhalation, and contact with eyes or skin.

If applicable, caution - risk of slipping.

6.2 Environmental precautions

If leakage occurs, dam up.

Resolve leaks if this possible without risk.

Prevent surface and ground-water infiltration, as well as ground penetration.

Prevent from entering drainage system.

If accidental entry into drainage system occurs, inform responsible authorities.

6.3 Methods and material for containment and cleaning up

Soak up with absorbent material (e.g. universal binding agent, sand, diatomaceous earth) and dispose of according to Section 13. Fill the absorbed material into lockable containers.

6.4 Reference to other sections

For personal protective equipment see Section 8 and for disposal instructions see Section 13.



®

Page 5 of 18

Safety data sheet according to Regulation (EC) No 1907/2006, Annex II

Revision date / version: 12.07.2018 / 0007

Replacing version dated / version: 30.03.2017 / 0006

Valid from: 12.07.2018 PDF print date: 13.07.2018 Motorbike Speed Shooter 80 ml

Art.: 3823

SECTION 7: Handling and storage

In addition to information given in this section, relevant information can also be found in section 8 and 6.1.

7.1 Precautions for safe handling

7.1.1 General recommendations

Ensure good ventilation.

Avoid inhalation of the vapours.

Keep away from sources of ignition - Do not smoke.

Take measures against electrostatic charging, if appropriate.

Avoid contact with eyes or skin.

Eating, drinking, smoking, as well as food-storage, is prohibited in work-room.

Observe directions on label and instructions for use.

Use working methods according to operating instructions.

7.1.2 Notes on general hygiene measures at the workplace

General hygiene measures for the handling of chemicals are applicable.

Wash hands before breaks and at end of work.

Keep away from food, drink and animal feedingstuffs.

Remove contaminated clothing and protective equipment before entering areas in which food is consumed.

7.2 Conditions for safe storage, including any incompatibilities

Keep out of access to unauthorised individuals.

Store product closed and only in original packing.

Not to be stored in gangways or stair wells.

Do not store with oxidizing agents.

Solvent resistant floor

Store in a well ventilated place.

Protect from direct sunlight and warming.

Store cool.

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7.3 Specific end use(s)

No information available at present.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Workplace exposure limit (WEL) of the total hydrocarbon solvent content of the mixture (RCP method according to EH40): 800 mg/m3

© Chemical Name	Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, <2% aromatics Content %:60-8				
WEL-TWA: 800 mg/m3	WEL-STEL:				
Monitoring procedures:	- Draeger - Hydrocarbons 2/a (81 03	3 581)			
	- Draeger - Hydrocarbons 0,1%/c (8				
	- Compur - KITA-187 S (551 174)	,			
BMGV:	,	Other information: (W	/EL acc. t	o RCP-method,	
		EH40)		,	
Chemical Name	Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyc	lics, aromatics (2-25%)		Content %:1-5	
WEL-TWA: 800 mg/m3	WEL-STEL:				
Monitoring procedures:	- Draeger - Hydrocarbons 2/a (81 03	3 581)			
	- Draeger - Hydrocarbons 0,1%/c (8	1 03 571)			
	- Compur - KITA-187 S (551 174)	,			
BMGV:		Other information: (W	/EL acc. t	o RCP-method,	
		EH40)		·	
Chemical Name	Hydrocarbons, C10, aromatics, <1% naphthalene			Content %:1-2,5	
WEL-TWA: 500 mg/m3 (Aromatics				·	
Monitoring procedures:	- Draeger - Hydrocarbons 2/a (81 03	3 581)			
	- Draeger - Hydrocarbons 0,1%/c (8				
	- Compur - KITA-187 S (551 174)	,			
BMGV:		Other information:			
		•			



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Page 6 of 18

Safety data sheet according to Regulation (EC) No 1907/2006, Annex II

Revision date / version: 12.07.2018 / 0007

Replacing version dated / version: 30.03.2017 / 0006

Valid from: 12.07.2018 PDF print date: 13.07.2018 Motorbike Speed Shooter 80 ml

Art.: 3823

Chemical Name	Hydrocarbons, C1	0, aromatics, >1% naphthalene		Content %:1-2,5		
WEL-TWA: 500 mg/m3 (Aromatics	s)	WEL-STEL:				
Monitoring procedures:	Monitoring procedures: - Draeger - Hydrocarbons 2/a (81 03 581)					
	- [Draeger - Hydrocarbons 0,1%/c (81 03 571)				
	- (Compur - KITA-187 S (551 174)				
BMGV:		Other information:	-			
Chemical Name	Naphthalene			Content %:0,1-<1		
WEL-TWA: 500 mg/m3 (Aromatics	s) (WEL), 10 ppm	WEL-STEL:				
(50 mg/m3) (EU)						
Monitoring procedures:	- (Compur - KITA-153 U(C) (551 182)				
BMGV:		Other information:	-			
@ 01 : IN	11 1 1 04	4.044 '		0 1 100		
Chemical Name		1-C14, n-alkanes, isoalkanes, cyclics, <2% aromatics		Content %:		
WEL-TWA: 1200 mg/m3 (>=C7 no	ormal and branched	WEL-STEL: 2(II) (AGW)				
chain alkanes)						
Monitoring procedures:		Draeger - Hydrocarbons 2/a (81 03 581)				
	- [Draeger - Hydrocarbons 0,1%/c (81 03 571)				
	- (Compur - KITA-187 S (551 174)				
BMGV:		Other information:	-			

WEL-TWA = Workplace Exposure Limit - Long-term exposure limit (8-hour TWA (= time weighted average) reference period) EH40. AGW = "Arbeitsplatzgrenzwert" (workplace limit value, Germany).

(8) = Inhalable fraction (2017/164/EU, 2017/2398/EU). (9) = Respirable fraction (2017/164/EU, 2017/2398/EU). | WEL-STEL = Workplace Exposure Limit - Short-term exposure limit (15-minute reference period).

(8) = Inhalable fraction (2017/164/EU, 2017/2398/EU). (9) = Respirable fraction (2017/164/EU, 2017/2398/EU). (10) = Short-term exposure limit value in relation to a reference period of 1 minute (2017/164/EU). | BMGV = Biological monitoring guidance value EH40. BGW = "Biologischer Grenzwert" (biological limit value, Germany) | Other information: Sen = Capable of causing occupational asthma. Sk = Can be absorbed through skin. Carc = Capable of causing cancer and/or heritable genetic damage.

** = The exposure limit for this substance is repealed through the TRGS 900 (Germany) of January 2006 with the goal of revision.

8.2 Exposure controls

Hydrocarbons, C10, aron Area of application	Exposure route / Environmental compartment	Effect on health	Descriptor	Value	Unit	Note
Consumer	Human - dermal	Long term	DNEL	7,5	mg/kg bw/day	
Consumer	Human - inhalation	Long term	DNEL	32	mg/m3	
Consumer	Human - oral	Long term	DNEL	7,5	mg/kg bw/day	
Workers / employees	Human - dermal	Long term	DNEL	12,5	mg/kg bw/day	
Workers / employees	Human - inhalation	Long term	DNEL	151	mg/m3	

Naphthalene						
Area of application	Exposure route / Environmental compartment	Effect on health	Descriptor	Value	Unit	Note
	Environment - freshwater		PNEC	2,4	μg/l	
	Environment - marine		PNEC	0,24	μg/l	
	Environment - sewage treatment plant		PNEC	2,9	mg/l	
	Environment - sediment, freshwater		PNEC	0,0672	mg/kg dry weight	
	Environment - sediment, marine		PNEC	0,0672	mg/kg dry weight	
	Environment - soil		PNEC	0,0533	mg/kg dry weight	
Workers / employees	Human - dermal	Long term, systemic effects	DNEL	3,57	mg/kg bw/day	



(B)

Page 7 of 18

Safety data sheet according to Regulation (EC) No 1907/2006, Annex II

Revision date / version: 12.07.2018 / 0007

Replacing version dated / version: 30.03.2017 / 0006

Valid from: 12.07.2018 PDF print date: 13.07.2018 Motorbike Speed Shooter 80 ml

Art.: 3823

	Workers / employees	Human - inhalation	Long term, systemic effects	DNEL	25	mg/m3	
ĺ	Workers / employees	Human - inhalation	Long term, local effects	DNEL	25	mg/m3	

8.2.1 Appropriate engineering controls

Ensure good ventilation. This can be achieved by local suction or general air extraction.

If this is insufficient to maintain the concentration under the WEL or AGW values, suitable breathing protection should be worn.

Applies only if maximum permissible exposure values are listed here.

Suitable assessment methods for reviewing the effectiveness of protection measures adopted include metrological and non-metrological investigative techniques.

These are specified by e.g. BS EN 14042.

BS EN 14042 "Workplace atmospheres. Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents".

8.2.2 Individual protection measures, such as personal protective equipment

General hygiene measures for the handling of chemicals are applicable.

Wash hands before breaks and at end of work.

Keep away from food, drink and animal feedingstuffs.

Remove contaminated clothing and protective equipment before entering areas in which food is consumed.

Eye/face protection:

Tight fitting protective goggles with side protection (EN 166).

Skin protection - Hand protection:

Solvent resistant protective gloves (EN 374).

If applicable

Protective nitrile gloves (EN 374)

Protective Viton® / fluoroelastomer gloves (EN 374)

Minimum layer thickness in mm:

0,5

Permeation time (penetration time) in minutes:

> 120

The breakthrough times determined in accordance with EN 16523-1 were not obtained under practical conditions.

The recommended maximum wearing time is 50% of breakthrough time.

Protective hand cream recommended.

Skin protection - Other:

Protective working garments (e.g. safety shoes EN ISO 20345, long-sleeved protective working garments).

Respiratory protection:

If OES or MEL is exceeded.

Gas mask filter A (EN 14387), code colour brown

Observe wearing time limitations for respiratory protection equipment.

Thermal hazards:

Not applicable

Additional information on hand protection - No tests have been performed.

In the case of mixtures, the selection has been made according to the knowledge available and the information about the contents. Selection of materials derived from glove manufacturer's indications.

Final selection of glove material must be made taking the breakthrough times, permeation rates and degradation into account.

Selection of a suitable glove depends not only on the material but also on other quality characteristics and varies from manufacturer to

In the case of mixtures, the resistance of glove materials cannot be predicted and must therefore be tested before use.

The exact breakthrough time of the glove material can be requested from the protective glove manufacturer and must be observed.

8.2.3 Environmental exposure controls

No information available at present.

SECTION 9: Physical and chemical properties



Page 8 of 18

Safety data sheet according to Regulation (EC) No 1907/2006, Annex II

Revision date / version: 12.07.2018 / 0007

Replacing version dated / version: 30.03.2017 / 0006

Valid from: 12.07.2018 PDF print date: 13.07.2018 Motorbike Speed Shooter 80 ml

Art.: 3823

9.1 Information on basic physical and chemical properties

Physical state: Liquid Colour: Yellow, Clear Odour: Characteristic Odour threshold: Not determined

pH-value: n.a.

Melting point/freezing point: Not determined Initial boiling point and boiling range: Not determined >61 °C Flash point: Evaporation rate: Not determined

Flammability (solid, gas): n.a.

Lower explosive limit: Not determined Upper explosive limit: Not determined Vapour pressure: Not determined Vapour density (air = 1): Not determined Density: 0,822 g/ml (15°C)

Bulk density: n.a.

Solubility(ies): Not determined Water solubility: Insoluble Partition coefficient (n-octanol/water): Not determined Not determined Auto-ignition temperature:

Decomposition temperature: Not determined Viscosity: <7 mm2/s (40°C) Product is not explosive. Explosive properties:

Oxidising properties:

9.2 Other information

Miscibility: Not determined Fat solubility / solvent: Not determined Conductivity: Not determined Surface tension: Not determined Solvents content: Not determined

SECTION 10: Stability and reactivity

10.1 Reactivity

The product has not been tested.

10.2 Chemical stability

Stable with proper storage and handling.

10.3 Possibility of hazardous reactions

No dangerous reactions are known.

10.4 Conditions to avoid

Heating, open flame, ignition sources

Electrostatic charge

10.5 Incompatible materials

Avoid contact with strong oxidizing agents.

10.6 Hazardous decomposition products

No decomposition when used as directed.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Possibly more information on health effects, see Section 2.1 (classification).

Motorbike Speed Shooter 80 ml								
Art.: 3823								
Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes		
Acute toxicity, by oral route:						n.d.a.		
Acute toxicity, by dermal route:						n.d.a.		
Acute toxicity, by inhalation:						n.d.a.		



Page 9 of 18

Safety data sheet according to Regulation (EC) No 1907/2006, Annex II Revision date / version: 12.07.2018 / 0007

Replacing version dated / version: 30.03.2017 / 0006

Skin corrosion/irritation:		n.d.a.
Serious eye damage/irritation:		n.d.a.
Respiratory or skin		n.d.a.
sensitisation:		
Germ cell mutagenicity:		n.d.a.
Carcinogenicity:		negative, the real Naphthalene content is <1%
Reproductive toxicity:		n.d.a.
Specific target organ toxicity - single exposure (STOT-SE):		n.d.a.
Specific target organ toxicity - repeated exposure (STOT-RE):		n.d.a.
Aspiration hazard:		n.d.a.
Symptoms:		n.d.a.

Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes
Acute toxicity, by oral route:	LD50	>5000	mg/kg	Rat		
Acute toxicity, by dermal route:	LD50	>3160	mg/kg	Rabbit		
Acute toxicity, by inhalation:	LC50	>4951	mg/m3	Rat		Vapours
Skin corrosion/irritation:						Not irritant,
						Repeated
						exposure may
						cause skin
						dryness or
						cracking.
Serious eye damage/irritation:						Not irritant
Respiratory or skin						No (skin contact)
sensitisation:						
Aspiration hazard:						Yes
Symptoms:						unconsciousness
						, headaches,
						dizziness
Other information:						Repeated
						exposure may
						cause skin
						dryness or
						cracking.

Hydrocarbons, C11-C14, n-alka	anes, isoalkan	es, cyclics, a	romatics (2-25%	%)		
Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes
Acute toxicity, by oral route:	LD50	>5060	mg/kg	Rat	OECD 401 (Acute Oral Toxicity)	
Acute toxicity, by dermal route:	LD50	~3400	mg/kg	Rabbit	OECD 402 (Acute Dermal Toxicity)	
Acute toxicity, by inhalation:	LC50	>13,1	mg/l/4h	Rat	OECD 403 (Acute Inhalation Toxicity)	Vapours
Skin corrosion/irritation:				Rabbit	OECD 404 (Acute Dermal Irritation/Corrosion)	Repeated exposure may cause skin dryness or cracking.
Serious eye damage/irritation:				Rabbit	OECD 405 (Acute Eye Irritation/Corrosion)	Not irritant
Respiratory or skin sensitisation:				Guinea pig	OECD 406 (Skin Sensitisation)	Not sensitizising
Germ cell mutagenicity:					OECD 473 (In Vitro Mammalian Chromosome Aberration Test)	Negative



Page 10 of 18

Safety data sheet according to Regulation (EC) No 1907/2006, Annex II Revision date / version: 12.07.2018 / 0007

Replacing version dated / version: 30.03.2017 / 0006

Carcinogenicity:					OECD 453 (Combined Chronic Toxicity/Carcinogenicity Studies)	Negative
Reproductive toxicity:	NOAEC	>=300	ppm	Rat	OECD 421 (Reproduction/Developm ental Toxicity Screening Test)	Negative
Aspiration hazard:						Yes
Symptoms:						Oedema of the lungs, Chemical pneumonitis (condition similar to pneumonia), drowsiness, unconsciousness , headaches, dizziness, drying of the skin., Gastrointestinal disturbances, Irritation of the mouth and throat

Hydrocarbons, C10, aromatics,	Hydrocarbons, C10, aromatics, <1% naphthalene									
Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes				
Acute toxicity, by oral route:	LD50	>5000	mg/kg	Rat	OECD 401 (Acute Oral Toxicity)					
Acute toxicity, by dermal route:	LD50	>2000	mg/kg	Rabbit	OECD 402 (Acute Dermal Toxicity)					
Acute toxicity, by inhalation:	LC50	>4688	mg/m3	Rat	OECD 403 (Acute Inhalation Toxicity)					
Skin corrosion/irritation:				Rabbit	OECD 404 (Acute Dermal Irritation/Corrosion)	Not irritant				
Skin corrosion/irritation:						Repeated exposure may cause skin dryness or cracking.				
Serious eye damage/irritation:				Rabbit	OECD 405 (Acute Eye Irritation/Corrosion)	Not irritant				
Serious eye damage/irritation:						Slightly irritant				
Respiratory or skin sensitisation:				Guinea pig	OECD 406 (Skin Sensitisation)	Not sensitizising				
Germ cell mutagenicity:					OECD 479 (Genetic Toxicology - In Vitro Sister Chromatid Exchange assay in Mammalian Cells)	Negative				
Reproductive toxicity:					OECD 414 (Prenatal Developmental Toxicity Study)	Negative				
Specific target organ toxicity - repeated exposure (STOT-RE):					OECD 408 (Repeated Dose 90-Day Oral Toxicity Study in Rodents)	Negative				
Aspiration hazard:					,	Yes				
Symptoms:						headaches, dizziness, fatigue, nausea and vomiting.				



Page 11 of 18

Safety data sheet according to Regulation (EC) No 1907/2006, Annex II Revision date / version: 12.07.2018 / 0007

Replacing version dated / version: 30.03.2017 / 0006

Symptoms:			drowsiness,
			headaches,
			drowsiness,
			dizziness

Hydrocarbons, C10, aromatics,	Hydrocarbons, C10, aromatics, >1% naphthalene									
Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes				
Acute toxicity, by oral route:	LD50	~7093	mg/kg	Rat	OECD 401 (Acute Oral					
					Toxicity)					
Acute toxicity, by dermal route:	LD50	>2000	mg/kg	Rat	OECD 402 (Acute					
					Dermal Toxicity)					
Acute toxicity, by inhalation:	LC50	>4688	mg/m3	Rat	OECD 403 (Acute					
					Inhalation Toxicity)					
Respiratory or skin				Guinea pig	OECD 406 (Skin	Not sensitizising				
sensitisation:					Sensitisation)					

Naphthalene						
Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes
Acute toxicity, by oral route:	LD50	490	mg/kg	Rat		
Acute toxicity, by dermal route:	LD50	>2500	mg/kg	Rat		
Acute toxicity, by inhalation:	LC50	>110	mg/l/4h			
Symptoms:						lack of appetite, ataxia, breathing difficulties, unconsciousness, diarrhoea, cornea opacity, headaches, cramps, gastrointestinal disturbances, mucous membrane irritation, dizziness, nausea and vomiting.

Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes
Acute toxicity, by oral route:	LD50	>5000	mg/kg	Rat	OECD 401 (Acute Oral Toxicity)	
Acute toxicity, by dermal route:	LD50	>5000	mg/kg	Rabbit	OECD 402 (Acute Dermal Toxicity)	
Acute toxicity, by inhalation:	LC50	>5000	mg/m3/8h	Rat	OECD 403 (Acute Inhalation Toxicity)	Vapours
Skin corrosion/irritation:						Repeated exposure may cause skin dryness or cracking.
Skin corrosion/irritation:					OECD 404 (Acute Dermal Irritation/Corrosion)	Analogous conclusion, Drying of the skin., Dermatitis (skin inflammation)
Serious eye damage/irritation:					OECD 405 (Acute Eye Irritation/Corrosion)	Analogous conclusion, Slightly irritant
Respiratory or skin sensitisation:				Rat		Not sensitizisin



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Page 12 of 18

Safety data sheet according to Regulation (EC) No 1907/2006, Annex II Revision date / version: 12.07.2018 / 0007

Replacing version dated / version: 30.03.2017 / 0006

Valid from: 12.07.2018 PDF print date: 13.07.2018 Motorbike Speed Shooter 80 ml Art.: 3823

Germ cell mutagenicity:	Salmonella in vivo typhimurium	Negative
Carcinogenicity:	OECD 453 (Combined Chronic Toxicity/Carcinogenicity Studies)	Analogous conclusion, Negative
Reproductive toxicity:	OECD 414 (Prenatal Developmental Toxicity Study)	Analogous conclusion, Negative
Specific target organ toxicity - single exposure (STOT-SE):		Analogous conclusion, No indications of such an effect.
Specific target organ toxicity - repeated exposure (STOT-RE):	OECD 408 (Repeated Dose 90-Day Oral Toxicity Study in Rodents)	Analogous conclusion, Not to be expected
Aspiration hazard:	, i	Yes
Symptoms:		drying of the skin., headaches, fatigue, dizziness, nausea, diarrhoea, vomiting

SECTION 12: Ecological information

Possibly more information on environmental effects, see Section 2.1 (classification).

Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
12.1. Toxicity to fish:							n.d.a.
12.1. Toxicity to daphnia:							n.d.a.
12.1. Toxicity to algae:							n.d.a.
12.2. Persistence and							n.d.a.
degradability:							
12.3. Bioaccumulative							n.d.a.
potential:							
12.4. Mobility in soil:							n.d.a.
12.5. Results of PBT							n.d.a.
and vPvB assessment							
12.6. Other adverse							n.d.a.
effects:							

Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
12.5. Results of PBT							No PBT
and vPvB assessment							substance, No vPvB substance
12.1. Toxicity to fish:	LL50	96h	>1000	mg/l	Oncorhynchus mykiss	OECD 203 (Fish, Acute Toxicity Test)	
12.1. Toxicity to fish:	NOELR	28d	0,101	mg/l	Oncorhynchus mykiss		
12.1. Toxicity to daphnia:	EL50	48h	>1000	mg/l	Daphnia magna	OECD 202 (Daphnia sp. Acute Immobilisation Test)	
12.1. Toxicity to daphnia:	NOELR	21d	0,176	mg/l	Daphnia magna	,	



Page 13 of 18

Safety data sheet according to Regulation (EC) No 1907/2006, Annex II Revision date / version: 12.07.2018 / 0007

Replacing version dated / version: 30.03.2017 / 0006

12.2. Persistence and		28d	80	%	activated sludge	OECD 301 F	Readily
degradability:					_	(Ready	biodegradable
						Biodegradability -	-
						Manometric	
						Respirometry Test)	
12.1. Toxicity to algae:	EL50	72h	>1000	mg/l	Pseudokirchneriell	OECD 201 (Alga,	
					a subcapitata	Growth Inhibition	
						Test)	
Other organisms:	EL50	48h	>1000	mg/l	Tetrahymen	·	
					pyriformis		

Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
12.1. Toxicity to fish:	LC50	96h	10-100	mg/l	Oncorhynchus	OECD 203 (Fish,	
					mykiss	Acute Toxicity	
						Test)	
12.1. Toxicity to daphnia:	EC50	48h	10-22	mg/l	Daphnia magna	OECD 202	
						(Daphnia sp.	
						Acute	
						Immobilisation	
						Test)	
12.1. Toxicity to daphnia:	NOELR	21d	0,28	mg/l	Daphnia magna	QSAR	Analogous
							conclusion
12.1. Toxicity to algae:	NOELR	72h	1	mg/l	Pseudokirchneriell	OECD 201 (Alga,	
					a subcapitata	Growth Inhibition	
						Test)	
12.1. Toxicity to algae:	EC50	72h	4,6-10	mg/l	Pseudokirchneriell	OECD 201 (Alga,	
					a subcapitata	Growth Inhibition	
						Test)	
12.2. Persistence and		28d	74,7	%		OECD 301 F	Readily
degradability:						(Ready	biodegradable
						Biodegradability -	
						Manometric	
						Respirometry Test)	
12.3. Bioaccumulative							To be expected
potential:							
12.4. Mobility in soil:							n.a.
12.5. Results of PBT							No PBT
and vPvB assessment							substance, No
							vPvB substanc
12.6. Other adverse							Product floats of
effects:							the water
							surface.
Other information:							Isolate as mucl
							as possible with
							an oil separator
Water solubility:							Insoluble

Hydrocarbons, C10, aromatics, <1% naphthalene							
Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
12.1. Toxicity to fish:	LC50	96h	1,6	mg/l	Oncorhynchus mykiss		
12.1. Toxicity to fish:	LL50	96h	2 - 5	mg/l	Oncorhynchus mykiss	OECD 203 (Fish, Acute Toxicity Test)	
12.1. Toxicity to fish:	LL50	96h	2-5	mg/l	Oncorhynchus mykiss		Analogous conclusion
12.1. Toxicity to daphnia:	EL50	48h	3 -10	mg/l	Daphnia magna	OECD 202 (Daphnia sp. Acute Immobilisation Test)	



Page 14 of 18

Safety data sheet according to Regulation (EC) No 1907/2006, Annex II Revision date / version: 12.07.2018 / 0007

Replacing version dated / version: 30.03.2017 / 0006

Valid from: 12.07.2018 PDF print date: 13.07.2018 Motorbike Speed Shooter 80 ml Art.: 3823

12.1. Toxicity to algae:	NOELR	72h	2,5	mg/l	Pseudokirchneriell a subcapitata	OECD 201 (Alga, Growth Inhibition Test)	
12.1. Toxicity to algae:	EL50	72h	11	mg/l	Pseudokirchneriell a subcapitata	OECD 201 (Alga, Growth Inhibition Test)	
12.1. Toxicity to algae:	NOELR	72h	2,5	mg/l	Pseudokirchneriell a subcapitata	OEĆD 201 (Alga, Growth Inhibition Test)	
12.1. Toxicity to algae:	EL50	72h	11	mg/l	Pseudokirchneriell a subcapitata	OECD 201 (Alga, Growth Inhibition Test)	
12.1. Toxicity to algae:	EC50	72h	1 -3	mg/l		,	
12.2. Persistence and degradability:		28d	49,6	%		OECD 301 F (Ready Biodegradability - Manometric Respirometry Test)	Not readily but inherent biodegradable.
12.3. Bioaccumulative potential:	BCF		<100			,	Low
Water solubility:							Insoluble

Hydrocarbons, C10, aromatics, >1% naphthalene								
Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes	
12.1. Toxicity to daphnia:	EL50	48h	10	mg/l	Daphnia magna	OECD 202 (Daphnia sp. Acute Immobilisation Test)		
12.1. Toxicity to algae:	EL50	72h	>1-<3	mg/l	Raphidocelis subcapitata	OECD 201 (Alga, Growth Inhibition Test)		

Naphthalene							
Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
12.1. Toxicity to fish:	LC50	96h	0,51	mg/l			
12.1. Toxicity to daphnia:	EC50	48h	2,19	mg/l	Daphnia magna		
12.1. Toxicity to algae:	LC50	4h	2,96	mg/l	Selenastrum capricornutum		
Other information:	COD		22	%	Сарпсотпицип		
Other information:	Log Pow		3,3	70			

Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
12.1. Toxicity to fish:	NOELR	28d	0,17	mg/l	Oncorhynchus mykiss	QSAR	
12.1. Toxicity to daphnia:	NOELR	21d	1,22	mg/l	Daphnia magna	QSAR	
12.1. Toxicity to algae:	NOELR	72h	1000	mg/l	Pseudokirchneriell	OECD 201 (Alga,	
					a subcapitata	Growth Inhibition Test)	
12.2. Persistence and degradability:		28d	69	%		OECD 301 F (Ready Biodegradability - Manometric Respirometry Test)	Readily biodegradable
12.3. Bioaccumulative potential:	Log Pow		6-8				High
12.5. Results of PBT and vPvB assessment							No PBT substance, No vPvB substance

SECTION 13: Disposal considerations



Page 15 of 18

Safety data sheet according to Regulation (EC) No 1907/2006, Annex II

Revision date / version: 12.07.2018 / 0007

Replacing version dated / version: 30.03.2017 / 0006

Valid from: 12.07.2018 PDF print date: 13.07.2018 Motorbike Speed Shooter 80 ml

Art.: 3823

13.1 Waste treatment methods

For the substance / mixture / residual amounts

EC disposal code no.:

The waste codes are recommendations based on the scheduled use of this product.

Owing to the user's specific conditions for use and disposal, other waste codes may be

allocated under certain circumstances. (2014/955/EU)

13 07 03 other fuels (including mixtures)

Recommendation:

Sewage disposal shall be discouraged.

Pay attention to local and national official regulations.

Implement substance recycling.

E.g. suitable incineration plant.

For contaminated packing material

Pay attention to local and national official regulations.

Empty container completely.

Uncontaminated packaging can be recycled.

Dispose of packaging that cannot be cleaned in the same manner as the substance.

Do not perforate, cut up or weld uncleaned container.

Residues may present a risk of explosion.

SECTION 14: Transport information

General statements

14.1. UN number: n.a.

Transport by road/by rail (ADR/RID)

14.2. UN proper shipping name:

14.3. Transport hazard class(es):n.a.14.4. Packing group:n.a.Classification code:n.a.LQ:n.a.

14.5. Environmental hazards: Not applicable

Tunnel restriction code:

Transport by sea (IMDG-code)

14.2. UN proper shipping name:

14.3. Transport hazard class(es):n.a.14.4. Packing group:n.a.Marine Pollutant:n.a.

14.5. Environmental hazards: Not applicable

Transport by air (IATA)

14.2. UN proper shipping name:

14.3. Transport hazard class(es):
14.4. Packing group:
n.a.

14.5. Environmental hazards: Not applicable

14.6. Special precautions for user

Unless specified otherwise, general measures for safe transport must be followed.

14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code

Non-dangerous material according to Transport Regulations.

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

Observe restrictions:

Comply with national regulations/laws governing maternity protection (national implementation of the Directive 92/85/EEC)! Comply with trade association/occupational health regulations.



Page 16 of 18

Safety data sheet according to Regulation (EC) No 1907/2006, Annex II

Revision date / version: 12.07.2018 / 0007

Replacing version dated / version: 30.03.2017 / 0006

Valid from: 12.07.2018 PDF print date: 13.07.2018 Motorbike Speed Shooter 80 ml

Art.: 3823

Directive 2010/75/EU (VOC):

85 %

15.2 Chemical safety assessment

A chemical safety assessment is not provided for mixtures.

SECTION 16: Other information

Revised sections:

4, 8, 15

These details refer to the product as it is delivered.

Employee instruction/training in handling hazardous materials is required.

Classification and processes used to derive the classification of the mixture in accordance with the ordinance (EG) 1272/2008 (CLP):

Classification in accordance with regulation (EC) No. 1272/2008 (CLP)	Evaluation method used
Asp. Tox. 1, H304	Classification according to calculation procedure.
Aquatic Chronic 3, H412	Classification according to calculation procedure.

The following phrases represent the posted Hazard Class and Risk Category Code (GHS/CLP) of the product and the constituents (specified in Section 2 and 3).

H302 Harmful if swallowed.

H304 May be fatal if swallowed and enters airways.

H336 May cause drowsiness or dizziness.

H351 Suspected of causing cancer.

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.

H411 Toxic to aquatic life with long lasting effects.

H412 Harmful to aquatic life with long lasting effects.

Asp. Tox. — Aspiration hazard

Aquatic Chronic — Hazardous to the aquatic environment - chronic

STOT SE — Specific target organ toxicity - single exposure - narcotic effects

Carc. — Carcinogenicity

Acute Tox. — Acute toxicity - oral

Aquatic Acute — Hazardous to the aquatic environment - acute

Any abbreviations and acronyms used in this document:

AC Article Categories

acc., acc. to according, according to

ACGIH American Conference of Governmental Industrial Hygienists

ADR Accord européen relatif au transport international des marchandises Dangereuses par Route (= European Agreement concerning the International Carriage of Dangerous Goods by Road)

AOEL Acceptable Operator Exposure Level

AOX Adsorbable organic halogen compounds

approx. approximately

Art., Art. no. Article number

ATE Acute Toxicity Estimate according to Regulation (EC) 1272/2008 (CLP)

BAM Bundesanstalt für Materialforschung und -prüfung (Federal Institute for Materials Research and Testing, Germany)
BAuA Bundesanstalt für Arbeitsschutz und Arbeitsmedizin (= Federal Institute for Occupational Health and Safety, Germany)

BCF Bioconcentration factor

BGV Berufsgenossenschaftliche Vorschrift (= Accident Prevention Regulation)

BHT Butylhydroxytoluol (= 2,6-Di-t-butyl-4-methyl-phenol) BMGV Biological monitoring guidance value (EH40, UK)

BOD Biochemical oxygen demand

BSEF Bromine Science and Environmental Forum

bw body weight



Page 17 of 18

Safety data sheet according to Regulation (EC) No 1907/2006, Annex II

Revision date / version: 12.07.2018 / 0007

Replacing version dated / version: 30.03.2017 / 0006

Valid from: 12.07.2018 PDF print date: 13.07.2018 Motorbike Speed Shooter 80 ml

Art.: 3823

Chemical Abstracts Service CAS

CEC Coordinating European Council for the Development of Performance Tests for Fuels, Lubricants and Other Fluids

CESIO Comité Européen des Agents de Surface et de leurs Intermédiaires Organiques

CIPAC Collaborative International Pesticides Analytical Council

Classification, Labelling and Packaging (REGULATION (EC) No 1272/2008 on classification, labelling and packaging of substances CLP

and mixtures)

CMR carcinogenic, mutagenic, reproductive toxic

Chemical oxygen demand COD

CTFA Cosmetic, Toiletry, and Fragrance Association

DMEL Derived Minimum Effect Level DNEL Derived No Effect Level DOC Dissolved organic carbon

DT50 Dwell Time - 50% reduction of start concentration

DVS Deutscher Verband für Schweißen und verwandte Verfahren e.V. (= German Association for Welding and Allied Processes)

dw dry weight

e.g. for example (abbreviation of Latin 'exempli gratia'), for instance

ΕČ **European Community** ECHA European Chemicals Agency European Economic Area EEA EEC **European Economic Community**

European Inventory of Existing Commercial Chemical Substances **EINECS**

ELINCS European List of Notified Chemical Substances

ΕN European Norms

United States Environmental Protection Agency (United States of America) **FPA**

ERC Environmental Release Categories

ES Exposure scenario et cetera etc.

European Union **EWC** European Waste Catalogue

Fax. Fax number gen.

EU

ĞHS Globally Harmonized System of Classification and Labelling of Chemicals

GWP Global warming potential

HET-CAM Hen's Egg Test - Chorionallantoic Membrane

HGWP Halocarbon Global Warming Potential IARC International Agency for Research on Cancer International Air Transport Association IATA

IBC Intermediate Bulk Container

IBC (Code) International Bulk Chemical (Code)

Inhibitory concentration IC

IMDG-code International Maritime Code for Dangerous Goods

including, inclusive incl.

IUCLID International Uniform ChemicaL Information Database

LC lethal concentration

LC50 lethal concentration 50 percent kill lowest published lethal concentration LCLo

Lethal Dose of a chemical ΙD LD50 Lethal Dose, 50% kill LDLo Lethal Dose Low

LOAEL Lowest Observed Adverse Effect Level LOEC Lowest Observed Effect Concentration

LOEL Lowest Observed Effect Level

Limited Quantities LQ

MARPOL International Convention for the Prevention of Marine Pollution from Ships

not applicable n.a. not available n.av. not checked n.c. n.d.a. no data available

NIOSH National Institute of Occupational Safety and Health (United States of America)

NOAECNo Observed Adverse Effective Concentration

NOAEL No Observed Adverse Effect Level NOEC No Observed Effect Concentration

NOEL No Observed Effect Level



Page 18 of 18

Safety data sheet according to Regulation (EC) No 1907/2006, Annex II

Revision date / version: 12.07.2018 / 0007

Replacing version dated / version: 30.03.2017 / 0006

Valid from: 12.07.2018 PDF print date: 13.07.2018 Motorbike Speed Shooter 80 ml

Art.: 3823

ODP Ozone Depletion Potential

OECD Organisation for Economic Co-operation and Development

organic org.

PAH polycyclic aromatic hydrocarbon persistent, bioaccumulative and toxic **PBT**

PC Chemical product category

PΕ Polyethylene

PNEC Predicted No Effect Concentration POCP Photochemical ozone creation potential

parts per million ppm PROC Process category PTFE Polytetrafluorethylene

REACHRegistration, Evaluation, Authorisation and Restriction of Chemicals (REGULATION (EC) No 1907/2006 concerning the Registration,

Evaluation, Authorisation and Restriction of Chemicals)

REACH-IT List-No. 9xx-xxx-x No. is automatically assigned, e.g. to pre-registrations without a CAS No. or other numerical identifier. List

Numbers do not have any legal significance, rather they are purely technical identifiers for processing a submission via REACH-IT.

Règlement concernant le transport International ferroviaire de marchandises Dangereuses (= Regulation concerning the International Carriage of Dangerous Goods by Rail)

SADT Self-Accelerating Decomposition Temperature

SAR Structure Activity Relationship

SU Sector of use

SVHC Substances of Very High Concern

Telephone Tel.

ThOD Theoretical oxygen demand

TOC Total organic carbon

TRGS Technische Regeln für Gefahrstoffe (=Technical Regulations for Hazardous Substances)

UN RTDG United Nations Recommendations on the Transport of Dangerous Goods

Verordnung über brennbare Flüssigkeiten (= Regulation for flammable liquids (Austria)) VbF

VOC Volatile organic compounds

vPvB very persistent and very bioaccumulative

WEL-TWA, WEL-STEL WEL-TWA = Workplace Exposure Limit - Long-term exposure limit (8-hour TWA (= time weighted average) reference period), WEL-STEL = Workplace Exposure Limit - Short-term exposure limit (15-minute reference period) (EH40, UK).

WHO World Health Organization

wwt wet weight

The statements made here should describe the product with regard to the necessary safety precautions - they are not meant to guarantee definite characteristics - but they are based on our present up-to-date knowledge. No responsibility.

These statements were made by:

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